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May 25, 2001

Mr. John Childs
Project Manager, Environmental Resources
Port of Portland
P.O. Box 3529
Portland, Oregon 97208

Re: Reports on the Elutriate Testing and Water Quality Monitoring Programs Associated with the Terminal 5, Berth 503, and Terminal 6, Berths 603-605, Dredging Program
15045-01

Dear Mr. Childs:

Hart Crowser is pleased to present the following reports associated with the Terminal 5, Berth 503, and Terminal 6, Berths 603-605, Dredging Program: Field and Laboratory Analysis of Dredged Material Elutriate Quality Suttle Road Handling Facility; and Report of Results of the Water Quality Monitoring Program for the Terminal 5, Berth 503, and Terminal 6, Berths 603-605. These reports discuss the water quality sampling and analysis programs and present results of the respective analyses.

The Port of Portland's water quality monitoring program consisted of a four-phased approach that included: (1) in-situ testing for sediment quality characterization of the dredged material prior to dredging as well as elutriate water quality characterization (T-6 only); (2) turbidity and chemical monitoring of the water column during dredging activities; (3) continuous visual monitoring of the surface water turbidity during dredging; and (4) elutriate water quality sampling following placement of the dredged material into the Suttle Road Rehandling Pilot facility.

In general, the results of each program are as follows:

- In-situ Sediment Quality – DDT was the only chemical found in the sediments from both Terminal 5 and Terminal 6 to be above the sediment screening levels from the Dredge Material Evaluation Framework for the Lower Columbia River Management Area (LCRMA).

Five Centerpointe Drive, Suite 240
Lake Oswego, Oregon 97035-8652
Fax 503.620.6918
Tel 503.620.7284

- Dredged Material Elutriate Testing – the laboratory modified elutriate test accurately predicted field conditions, and the dredged material elutriate water was suitable for discharge back to the river after seven days of settling time in the temporary rehandling facility.
- Water Quality Monitoring during dredging activities – monitoring of the water column for turbidity, chemical, temperature, dissolved oxygen, pH, and conductivity indicated no significant impacts downstream of the dredging activities.
- Visual Turbidity Monitoring – visual turbidity differences were observed for a short duration beyond 100 feet of dredging activities, but no long-term significant differences in turbidity were observed as a result of dredging activities.

If you have any questions regarding these reports, please do not hesitate to contact either one of us at (503) 620-7284.

Sincerely,

HART CROWSER, INC.

HOWARD L. CUMBERLAND
Associate

TODD M. THORNBURG, PH.D
Senior Associate

Attachments: Field and Laboratory Analysis of Dredged Material Elutriate Quality Suttle Road Handling Facility
Report of Results of the Water Quality Monitoring Program for the Terminal 5, Berth 503, and Terminal 6, Berths 603-605